Application No. 10/092,631
Reply to Office Action of May 21, 2004

IN THE CLAIMS BEST AVAILABLE COPY

Please amend the claims as follows:

Claim 1 (Currently Amended): An etched circuit with lightning protection, comprising:

at least one main line connected to a connector adapted to the an output of the a transmission antenna of the a transmission system working at a fixed frequency f_0 or in a narrow frequency band Δf_0 , the circuit comprising around the fixed frequency f_0 :

a capacitor, wherein said circuit comprises

at least one first line, with a first length [[1,1]] and a first width that may or may not be constant, connected to said connector and terminated by a short-circuit that is open circuited the main line and substantially equivalent to an open circuit with respect to the main line for the frequency fo.

Claim 2 (Currently Amended): [[An]] The etched circuit with lightning protection according to the above claim, claim 1, further comprising:

a second line, with a second length [[12]] and a second width that may or may not be constant, connected to the output of the capacitor and terminated by a short circuit that is open circuit main line and substantially equivalent to an open circuit with respect to the main line for the frequency fo; and

a capacitor arranged on the main line and between the first line and the second line.

Claim 3 (Currently Amended): [[An]] The etched circuit with lightning protection according to the above claim claim 1, wherein the widths of the first and second lines are different.



Claim 4 (Currently Amended): [[An]] The etched circuit with lightning protection according to one of the above claims claim 1, wherein the first line comprises at least one first open stub.

Claim 5 (Currently Amended): [[An]] The etched circuit with lightning protection according to one of the claims 2 to 4 claim 4, wherein the second line comprises at least one second open stub.

Claim 6 (Currently Amended): [[An]] The etched circuit with lightning protection according to one of the above claims claim 1, wherein the first length [[l1]] of the first line and/or the length la-of the second line is a quarter of the wavelength of the frequency used fo-

Claim 7 (Currently Amended): [[An]] The etched circuit with lightning protection according to ene of the above claims claim 1, wherein the width and/or or the length of the first line and/or of the second line and/or of the first stub and/or of the second stub are is determined as a first function of [[the]] a harmonic or harmonics nfo, n being an integer greater than or equal to 2, (with n as an integer ≥ 2) to be filtered.

Claim 8 (Canceled).

Claim 9 (Currently Amended): An application of the above identified The etched circuit with lightning protection according to one of the above claims 1 to 7, to the filtering of the claim 7, wherein the function is of a second harmonic 2fo and the or a third harmonic 3fo. n being equal to 2 or 3.

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Claim 10 (Currently Amended): An application of the method for the manufacture of an The etched circuit with lightning protection according to claim [[8]] 7, wherein the function is to the manufacture of an etched circuit with a common function of lightning protection and of the filtering of one of more harmonics nfo, (with n being an integer > 3) greater than B.

Claim 11 (New): The etched circuit with lightning protection according to claim 6, wherein the second length of the second line is a quarter of the wavelength of the frequency used fo.

Claim 12 (New): The etched circuit with lightning protection according to claim 7, wherein the width or the length of the second line is determined as the first or a second function of a harmonic or harmonics nf₀, n being greater than or equal to 2, to be filtered.

Claim 13 (New): The etched circuit with lightning protection according to claim 1, wherein a width or a length of the first stub is determined as a first function of a harmonic or harmonics nfo, n being an integer greater than or equal to 2, to be filtered.

Claim 14 (New): The etched circuit with lightning protection according to claim 13, wherein a width or a length of the second stub is determined as the first or a second function of a harmonic or harmonics nfo, n being an integer greater than or equal to 2, to be filtered.

Claim 15 (New): A method for the manufacture of the etched circuit with lightning protection according to one of the claims 1-7 and 9-14, the method comprising:

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etching of the lines of said etched circuit on the base of said etched circuit; depositing of a film of conductive material;

if necessary, scraping away an excess of the conductive material in order to retain only the conductive material that has been deposited in the lines and the capacitor.